

AHR and AHRB Flash Economizer Selector Chart

Delivered Horse Power/ Pounds per Hour	Percent of Continuous Blowdown									
	10%	9%	8%	7%	6%	5%	4%	3%	2%	1%
23,188 hp/800,000 #/hr.										16
20,290 hp/700,000 #/hr.									28	14
17,391 hp/600,000 #/hr.									24	12
14,493 hp/500,000 #/hr.								30	20	10
11,594 hp/400,000 #/hr.								21	16	8
8,696 hp/300,000 #/hr.						30	24	18	12	6
5,797 hp/200,000 #/hr.				28	24	20	16	12	8	4
2,899 hp/100,000 #/hr.	20	18	16	14	12	10	8	6	4	2
2,647 hp/90,000 #/hr.	18	16	14	13	11	9	7.2	5.4	3.6	1.8
2,319 hp/80,000 #/hr.	16	14	13	11	9.6	8	6.4	4.8	3.2	1.6
2,029 hp/70,000 #/hr.	14	13	11	9.8	8.4	7	5.6	4.2	2.8	1.4
1,739 hp/60,000 #/hr.	12	11	9.6	8.4	7.2	6	4.8	3.6	2.4	1.2
1,594 hp/50,000 #/hr.	10	9	8	7	6	5	4	3	2	1
1,159 hp/40,000 #/hr.	8	7.2	6.4	5.6	4.8	4	3.2	2.4	1.6	0.8
870 hp/30,000 #/hr.	6	5.4	4.8	4.2	3.6	3	2.4	1.8	1.2	0.6
580 hp/20,000 #/hr.	4	3.6	3.2	2.8	2.4	2	1.6	1.2	0.8	0.4
290 hp/10,000 #/hr.	2	1.8	1.6	1.4	1.2	1	0.8	0.6	0.4	0.2

How to use the AHR and AHRB Flash Economizer Selector Chart:

1. Go across the top of the selector chart to percent of continuous blowdown for the boiler or boilers.
2. Go down the left of the chart to the boiler size or combined size of the boilers. This can be in delivered horse power or boiler pounds per hour (#/hr).
3. Read gallons per minute of continuous blowdown. This value should be equal to or less than the blowdown rating shown on the Flash Economizer sizing chart.
4. Also off the sizing chart, the maximum make-up rate should be compared to the Flash Economizer rating. This value should be equal or less than what is listed.

Example:

7% Blowdown on a 100,000 #/hr. boiler off the selector chart is 14 gallons per minute (gpm). The total maximum make-up rate for the same boiler is 50% or 100 gpm. Use Model No. AHRB 20-100 Flash Economizer.

